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09/473,098	12/28/1999	JULIO ESTRADA	110595.00125/LOT919990047	9594

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

		Application No.	**Applicant(s)**
Office Action Summary		09/473,098	ESTRADA ET AL.
		Examiner	**Art Unit**	
		Kyung Hye Shin	2443	

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>04 November 2009</u>.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1 - 7, 9, 10, 13, 15</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1 - 7, 9, 10, 13, 15</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

U.S. Patent and Trademark Office

PTOL-326 (Rev. 08-06)   **Office Action Summary**   Part of Paper No./Mail Date 20100118

DETAILED ACTION

1.   This action is responding to application amendments filed on 11/4/2009.

Claims **1 - 7, 9, 10, 13, 15** are pending. Claims **1, 3, 9, 10, 13, 15** are amended.

Claims **8, 11, 12, 14** have been cancelled.   Independent claims are **1, 3, 8, 9, 10, 13,**

15. This application was filed 5/26/2005.

Claim Rejections - 35 USC § 101

2.   35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of
> matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the
> conditions and requirements of this title.

3.   Claims **13, 15** are rejected under 35 U.S.C. 101 because the claimed invention is

directed to non-statutory subject matter as follows.   Claim **13** discloses a program

storage device readable by a machine and Claim **15** discloses a computer program

product. The specification on page 103 discloses that a program can be stored on a

fluid transmission medium and the signals readable by a machine.   A fluid is defined as:

"A continuous, amorphous substance whose molecules move freely past one another

and that has the tendency to assume the shape of its container; a liquid or gas."

(http://www.answers.com/topic/fluid)   A gas can be the air, therefore a fluid

transmission medium can be a wireless transmission medium such as a signal/carrier

wave and directed towards non-statutory subject matter. Appropriate correction is

required.

Specification Page 103, Lines 2-14:
        It will be appreciated that, although specific embodiments of the invention have been

described herein for purposes of illustration, various modifications may be made without departing from the spirit and scope Of the invention. In particular, it is within the scope of the invention to provide a computer program product or program element, or a **program storage** or memory device such as a solid or **fluid transmission medium**, magnetic or optical wire, tape or disc, or the like, for **storing signals readable by a machine**, for controlling the operation of a computer according to the method of the invention and/or to structure its components in accordance with the system of the invention.

Claim Rejection – 35 USC § 103

4.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5.   **Claims 1 - 7, 9, 10, 13, 15** are rejected under 35 U.S.C. 103(a) as being

unpatentable over **Salas** (US Patent No. **6,233,600**) in view of **Maurille** (US Patent No.

6,484,196) and further in view of **Cutler et al.** (US Patent No. **5,129,083**).

Regarding Claim 1, Salas discloses a collaboration space created as a web site by a

user at a browser including a plurality of rooms in a hierarchical structure with access

control list control on rooms and access control list control on forward pointers to child

rooms (Salas col 2, ll 4-11; col 2, 29-31: web site server, enable clients to interact within

collaborative workspace; col 3, ll 49-51: plurality of rooms with hierarchical pointers and

access mechanism), comprising:

   c) said readers field being a members object for identifying members authorized to

       access said room and for each member a level of authorization. (Salas col 13, ll

       32-34; col 14, ll 37-39: object access control (readers field) mechanism)

Salas discloses wherein said web site residing in a memory of a web server and including a database and an access control list for users authorized to access said room and a notes, each subroom being an independent entity belonging to said place said web site including an HTTP server interfaced with the Internet, said place having a first data note including a directory of members of said place. (Salas col 2, ll 4-11; col 2, ll 29-31: web site server, enable clients to interact within collaborative workspace; col 3, ll 49-51; col 13, ll 32-34)

Salas does not specifically disclose a database system for management of collaborative space.

However, Maurille discloses

a) a place comprising a plurality of subrooms, (Maurille col 6, ll 44-57: database system for member, message information) each subroom within said place having a data note associated therewith containing an access control list of members selected exclusively from said directory of members by a member of said place having manager authority with respect to said subroom for specifying users of said place authorized to access said subroom,

And Cutler specifically discloses the usage of object oriented technology utilizing access control list techniques for collaborative space management (Cutler col 2, ll 27-30; col 22, ll 65-67; col 5, ll 21-25: objects provide access control lists controlling access to objects, object inheritance- child has equal or less access capabilities of parent).

Salas discloses a readers field for providing access control list type control on said

forward pointer and a child room and subroom, each subroom being an independent

entity belonging to said place, said place having a first data note including a

directory of members of said place. (Salas col 13, ll 32-34; col 14, ll 37-39)

Salas does not specifically disclose a database system for collaborative workspace.

However, Maurille discloses

b) forward and reverse pointers for linking said subrooms (Maurille col 16, ll 17-22;

      col 8, ll 33-38: to/from (forward/reverse) pointers), each said forward pointer

      including indicia specifying the address location of the entity forming said child

      room (Maurille col 6, ll 44-57: database system for member, message

      information).

Salas discloses a document readers field for a document containing data in said

subroom being a members object for identifying a subset of members of said place

authorized to access a subroom who are also authorized to access said document.

(Salas col 13, ll 32-34: readers field),

And, Cutler specifically discloses

d) the utilization of object oriented techniques such as access control list techniques

      for collaborative space management (Cutler col 2, ll 27-30; col 22, ll 65-67; col 5,

      ll 21-25: objects provide access control lists controlling access to objects, object

      inheritance- child has equal or less access capabilities of parent).

Salas discloses wherein said collaboration space comprising a hierarchy of rooms,

each room being a place in collaboration space including said directory of members;

(Salas col 5, ll 8-11; col 12, ll 7-22: collaborative workspace virtual rooms)

And, Cutler discloses:

e) wherein said directory of members, said access control list of members, and said

readers field selectively providing increased, decreased, and maintained access

to a child place in collaboration space, with access at any level of authority to a

child place enabled only for those authorized to access a corresponding parent

place, (Cutler col 2, ll 27-30; col 22, ll 65-67; col 5, ll 21-25: access control lists,

doubly linked lists)

And Maurille discloses wherein whether a link to a child place will be enabled for a

specific user in its corresponding parent place. (Maurille col 16, ll 17-22; col 8, ll

33-38: pointers, hierarchical structure) and

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Salas to operate a collaborative workspace for

message communications between members as taught by Maurille, and to modify

Salas to enable utilization of standard object oriented techniques for collaborative

space processing such as pointers to objects containing access control lists (ACLs)

and controlling access to objects as taught by Cutler. One of ordinary skill in the art

would be motivated to employ Maurille to optimize message processing and display

capabilities for a networked collaborative communications environment (Maurille col

6, ll 13-16), and to employ Cutler to efficiently enhance security by providing limited

visibility of computer resources and protecting data integrity (Cutler col 1, ll 47-53).

Regarding Claim 2, Salas discloses the collaboration space of claim 1, said levels of

authorization including manager, author, and reader. (Salas col 13, ll 27-37; col 14, ll

44-54: authorization levels (manager, reader, coordinator) are managed to allow create,

modify, edit procedures)

Regarding Claim 3, Salas discloses a collaboration space created as a web site by a

user at a browser, comprising:

    b) a member directory for said place identifying users authorized to enter said place;

       (Salas col 2, ll 4-11; col 2, 29-31: web site server, enable clients to interact within

       collaborative workspace; col 3, ll 49-51: member information and access

       controls)

    c) each said room comprising one or more pages, and for each said room a

       members object for identifying a subset of members of said place authorized to

       access said room and for each member a level of authorization, each member of

       said subset of members being a user authorized in said member directory to

       enter said place; (Salas col 3, ll 49-51; col 14, ll 39-44: member information and

       access levels)

Salas discloses a place <u>included in said web site, said web site residing in a memory</u> <u>of a web server, said place</u> comprising a plurality of rooms with pointers in a hierarchical structure for a collaborative workspace. (Salas col 3, ll 49-51)

Salas does not explicitly mention forward and backward pointers.

However, Maurille discloses

a) objects (rooms) linked by forward and backward pointers. (Maurille col 16, ll 17-22; col 8, ll 33-38; pointers with to/from (forward/backward) pointers for parent/child navigation)

Salas discloses a readers field for providing access control list control on said forward pointer, said readers field for identifying those members of said subset of members of said place authorized to access a parent room that are also authorized to access a child room and a database for said rooms including a parent room and a child room structure for collaborative workspace. (Salas col 3, ll 49-51; col 13, ll 32-34)

Salas does not explicitly disclose forward and backward pointers.

However, Maurille discloses

d) said pointers comprising forward and backward pointers for enabling the security of each said room to be independently managed, said forward pointers including indicia identifying said child room, indicia specifying the address location of the database forming said child room (Maurille col 6, ll 44-57: database system for member, message information),

And Cutler specifically discloses the utilization of object oriented techniques such as

access control list techniques for collaborative space management (Cutler col 2,

ll 27-30; col 22, ll 65-67; col 5, ll 21-25: objects provide access control lists

controlling access to objects, object inheritance- child has equal or less access

capabilities of parent).

Salas discloses wherein said collaboration space comprising a hierarchy of rooms,

each room being a place in collaboration space including said directory of members;

(Salas col 5, ll 8-11; col 12, ll 7-22: collaborative workspace virtual rooms)

And, Cutler discloses

e) wherein said directory of members, said access control list of members, and said

readers field selectively providing increased, decreased, and maintained access

to a child place in collaboration space, with access at any level of authority to a

child place enabled only for those authorized to access a corresponding parent

place, (Cutler col 2, ll 27-30; col 22, ll 65-67; col 5, ll 21-25: access control lists,

doubly linked lists)

And, Maurille discloses wherein whether a link to a child place will be enabled for a

specific user in its corresponding parent place. (Maurille col 16, ll 17-22; col 8, ll

33-38: pointers, hierarchical structure)

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Salas to operate a collaborative workspace for

message communications between members as taught by Maurille, and to modify

Salas to enable utilizing standard object oriented techniques such as access control

lists (ACLs) controlling access to objects for collaborative space management as

taught by Cutler. One of ordinary skill in the art would be motivated to employ

Maurille to optimize message processing and display capabilities for a networked

collaborative communications environment (Maurille col 6, ll 13-16), and to employ

Cutler to efficiently enhance security by providing limited visibility of computer

resources and protecting data integrity (Cutler col 1, ll 47-53).

Regarding Claim 4, Salas discloses the collaboration space of claim 3, said readers

field including an access authority for each reader authorized to enter said room

selectively as manager, author or manager. (Salas col 7, ll 8-10 col 14, ll 39-54: readers

field access control information for room with different access levels)

Regarding Claim 5, Salas discloses the collaboration space of claim 3, each said

forward pointer being a secure pointer by carrying the same level of security as the child

room to which it points. (Salas col 8, ll 12-16; col 6, ll 52-56; col 7, ll 8-10: room template

controls room generation, parent-child relationship, child inherits characteristics of

parent (including access capabilities))

Salas does not explicitly disclose the access control level for a child room is the same or

less than the access control level of a parent room.

However, Cutler discloses the same level of security as the child room to which it points.

(Cutler col 2, ll 27-30; col 22, ll 65-67; col 5, ll 21-25: objects provide access control lists

controlling access to objects, object inheritance- child has equal or less access

capabilities of parent)

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Salas to enable utilizing standard object oriented

techniques such as access control lists (ACLs) controlling access to objects for

collaborative space management as taught by Cutler. One of ordinary skill in the art

would be motivated to employ Cutler to efficiently enhance security by providing limited

visibility of computer resources and protecting data integrity. (Cutler col 1, ll 47-53)

Regarding Claim 6, Salas discloses the collaboration space of claim 5, each said

forward pointer carrying in said readers field the same security as that of the subroom to

which it points. (Salas col 8, ll 12-16; col 6, ll 52-56; col 7, ll 8-10: room template

controls room generation, parent-child relationship, child (subroom) inherits

characteristics of parent (including access capabilities))

Regarding Claim 7, Salas discloses the collaboration space of claim 6, further

comprising a display for presenting to a specific user viewing a parent room a listing of

its subrooms, said listing including for said specific user only those subrooms for which

said readers field in said forward pointer includes an entry authorizing access by said

specific user. (Salas col 12, ll 7-22: user interface for child (subroom) display)

Regarding Claim 9, 13, Salas discloses a method for controlling access to rooms,

comprising:

    a) maintaining for <u>a</u> collaboration place an access control list identifying those users

        authorized to enter said place<u>, said collaboration place including said rooms</u>

        <u>within said collaboration place and created as a web site by a user at a browser,</u>

        <u>said web site residing in a memory of a web server including an HTTP server</u>

        <u>interface with the Internet;</u> (Salas col 2, ll 4-11; col 2, 29-31: web site server,

        enable clients to interact within collaborative workspace; Salas col 3, ll 49-57:

        member information and access controls)

    c) displaying a parent room to a specific user, said parent room including a list of

        children rooms for which said readers fields on said forward pointers authorize

        said specific user access. (Salas Figure 1; col 6, ll 39-55: display interface for

        parent room)

Salas discloses a readers field for providing access control list control on said

forward pointer, said readers field exclusively specifying a subset of said users

authorized to enter said place.

Salas does not explicitly disclose forward/backward pointers or a database system

for the collaborative workspace.

However, Maurille discloses

    b) said forward pointers including indicia identifying a child room, indicia specifying

        the address location of the database forming said child room; (Maurille col 16, ll

        17-22; col 8, ll 33-38; pointers with to/from (forward/backward) pointers for

parent/child navigation: Maurille col 6, ll 44-57: database system for member,

message information),

And, Cutler discloses parent/child object access control list inheritance. (Cutler col 2,

ll 27-30; col 22, ll 65-67; col 5, ll 21-25: objects provide access control lists

controlling access to objects, object inheritance- child has equal or less access

capabilities of parent)

Salas discloses wherein said collaboration space comprising a hierarchy of rooms,

each room being a place in collaboration space including said directory of members;

(Salas col 5, ll 8-11; col 12, ll 7-22: collaborative workspace virtual rooms)

And, Cutler discloses:

e) wherein said directory of members, said access control list of members, and said

readers field selectively providing increased, decreased, and maintained access

to a child place in collaboration space, with access at any level of authority to a

child place enabled only for those authorized to access a corresponding parent

place, (Cutler col 2, ll 27-30; col 22, ll 65-67; col 5, ll 21-25: access control lists,

doubly linked lists)

And, Maurille discloses wherein whether a link to a child place will be enabled for a

specific user in its corresponding parent place. (Maurille col 16, ll 17-22; col 8, ll

33-38: pointers, hierarchical structure)

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Salas to operate a collaborative workspace for

message communications between members as taught by Maurille, and to modify

Salas to enable utilizing standard object oriented techniques such as access control

lists (ACLs) controlling access to objects for collaborative space management as

taught by Cutler. One of ordinary skill in the art would be motivated to employ

Maurille to optimize message processing and display capabilities for a networked

collaborative communications environment (Maurille col 6, ll 13-16), and to employ

Cutler to efficiently enhance security by providing limited visibility of computer

resources and protecting data integrity (Cutler col 1, ll 47-53).

Regarding Claim 10, Salas discloses a method for creating a child room within a

collaboration place data base <u>created as a web site by a user at a browser</u>, comprising:

    a) providing for said collaboration place data base a first access control list

       identifying users authorized to access said data base<u>, said collaborative place</u>

       <u>database created as aid web site, said web site residing in a memory of a web</u>

       <u>server including an HTTP server interfaced with the Internet;</u> (Salas col 2, ll 4-11;

       col 2, 29-31: web site server, enable clients to interact within collaborative

       workspace; col 13, ll 32-34; col 14, ll 31-36: access control mechanism to

       determine authorized user access)

    b) providing for said child room a back pointer to a parent room; (Salas col 6, ll 39-

       55: backward pointer to parent)

    d) initially including in said readers access field for a child room created from a form

       users identified in a form access list identifying users authorized to read rooms

      created from said form; (Salas col 13, ll 32-34; col 14, ll 37-39: object access

      control (i.e. readers field) mechanism for controlling access to objects)

e) limiting reader access in said readers access field to said child room for a specific

      user to no more than the access granted said specific user in said first access

      control list   (Salas col 13, ll 32-34; col 14, ll 37-39: object access control (i.e.

      readers field) mechanism for controlling access to objects)

Salas discloses a readers field indicating authorized access to a room for providing a

second access control list specific to said forward pointer and providing at said

parent room for said child room a forward pointer from said parent room to said child

room. (Salas col 13, ll 32-34; col 14, ll 37-39: object access control)

Salas does not explicitly disclose a database system for collaborative space.

However, Maurille discloses

c) said pointer including indicia identifying said child room, indicia specifying the

      address location of the database forming said child room. (Maurille col 6, ll 44-57:

      database system for member, message information)

Salas discloses wherein said collaboration space comprising a hierarchy of rooms,

each room being a place in collaboration space including said directory of members;

(Salas col 5, ll 8-11; col 12, ll 7-22: collaborative workspace virtual rooms)

And, Cutler discloses

f) wherein said directory of members, said access control list of members, and said

      readers field selectively providing increased, decreased, and maintained access

to a child place in collaboration space, with access at any level of authority to a

child place enabled only for those authorized to access a corresponding parent

place, (Cutler col 2, ll 27-30; col 22, ll 65-67; col 5, ll 21-25: access control lists,

doubly linked lists)

And, Maurille discloses wherein whether a link to a child place will be enabled for a

specific user in its corresponding parent place. and (Maurille col 16, ll 17-22; col

8, ll 33-38: pointers, hierarchical structure) and

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Salas to operate a collaborative workspace for

message communications between members as taught by Maurille, and to modify

Salas to enable utilizing standard object oriented techniques such as access control

lists (ACLs) controlling access to objects for collaborative space management as

taught by Cutler. One of ordinary skill in the art would be motivated to employ

Maurille to optimize message processing and display capabilities for a networked

collaborative communications environment (Maurille col 6, ll 13-16), and to employ

Cutler to efficiently enhance security by providing limited visibility of computer

resources and protecting data integrity (Cutler col 1, ll 47-53).

Regarding Claim 15, Salas discloses a computer program product for controlling

access to rooms, comprising:

a) a computer readable medium; (Salas col 2, ll 4-11; col 2, 29-31: web site server,

enable clients to interact within collaborative workspace; col 6, ll 57-63: software

    (i.e. instructions) to implement collaborative management system; col 3, ll 41-44:

    memory (computer readable medium))

b) a first program instructions for maintaining for said collaboration a first access

    control list identifying those users authorized to enter said place<u>, said</u>

    <u>collaboration place including said rooms within said collaboration place and</u>

    <u>created as a web site by a user at a browser, said web site residing in a memory</u>

    <u>of a web server including an HTTP server interfaced with the Internet</u>; (Salas col

    3, ll 49-57; col 6, ll 57-63: member information and access controls, instructions)

c) second program instructions for providing in a child room second access control

    list identifying a subset of those user authorized to enter said place who are also

    authorized to enter said child parent room with manager, author, or user access;

    (Salas col 13, ll 32-34; col 14, ll 44-54; col 6, ll 57-63: access levels for objects

    (i.e. rooms), instructions)

e) fourth program instructions for displaying a parent room to a specific user, said

    parent room including on said forward pointers a list of children rooms for which

    said readers fields authorize said specific user access; and wherein said first,

    second, third, and fourth program instructions are recorded on said computer

    readable medium <u>and executable by a machine</u>. (Salas Figure 1; col 6, ll 39-55;

    col 6, ll 57-63: display interface for parent room, instructions; col 6, ll 57-63:

    software (i.e. instructions) to implement collaborative management system)

Salas disclose an access control (readers) field with pointers linking rooms and

providing a third access control list on said forward pointer, said third access control

list providing access to said child room for those members who are included in said

second access control list who are also authorized to access said child room. (Salas

col 13, ll 32-34: object (i.e. room, pointer) access control mechanism)

Salas does not specifically disclose forward and reverse (i.e. double-linked) pointers.

However, Maurille discloses

d) providing forward and reverse pointers linking said parent room with a child room

    in a double-linked list. (Maurille col 16, ll 17-22; col 8, ll 33-38; pointers with

    to/from (i.e. forward/backward) pointers for parent/child navigation; col 6, ll 44-57:

    database system for member, message information),

And, Cutler specifically discloses the usage of object oriented technology such as

    access control list techniques for collaborative space management (Cutler col 2,

    ll 27-30; col 22, ll 65-67; col 5, ll 21-25: objects provide access control lists

    controlling access to objects, object inheritance- child has equal or less access

    capabilities of parent).

Salas discloses wherein a fifth program instructions establishing said collaboration

space comprising a hierarchy of rooms, each room being a place in collaboration

space including said directory of members; (Salas col 5, ll 8-11; col 12, ll 7-22:

collaborative workspace virtual rooms)

And, Cutler discloses

e) wherein said directory of members, said access control list of members, and said

    readers field selectively providing increased, decreased, and maintained access

    to a child place in collaboration space, with access at any level of authority to a

child place enabled only for those authorized to access a corresponding parent

place, (Cutler col 2, ll 27-30; col 22, ll 65-67; col 5, ll 21-25: access control lists,

doubly linked lists)

And, Maurille discloses wherein whether a link to a child place will be enabled for a

specific user in its corresponding parent place. and (Maurille col 16, ll 17-22; col

8, ll 33-38: pointers, hierarchical structure)

    It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Salas to operate a collaborative workspace for

message communications between members as taught by Maurille, and to modify

Salas to enable utilizing standard object oriented techniques such as access control

lists (ACLs) controlling access to objects for collaborative space management as

taught by Cutler. One of ordinary skill in the art would be motivated to employ

Maurille to optimize message processing and display capabilities for a networked

collaborative communications environment (Maurille col 6, ll 13-16), and to employ

Cutler to efficiently enhance security by providing limited visibility of computer

resources and protecting data integrity (Cutler col 1, ll 47-53).

Conclusion

    Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kyung Hye Shin whose telephone number is (571) 272-

3920. The examiner can normally be reached on 9:30 am - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tonia L. Dollinger can be reached on (571) 272-4170. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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